

AMENDMENTS TO THE CLAIMS

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This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1-15. (Canceled)

16. (New) A method of controlling transmit power in a radio communication system having a first base station in communication with a first mobile station and a second base station in communication with a second mobile station, said method comprising the steps of:

communicating through an uplink connection from the first mobile station to the first base station utilizing an uplink power;

communicating through a downlink connection from the second base station to the second mobile station utilizing a downlink power;

requesting by the first base station, a first Adaptive Multi-Rate (AMR) coded mode for use on the uplink connection, said first AMR coded mode being associated with an uplink Carrier-to-Interference (C/I) ratio;

requesting by the second mobile station, a second AMR coded mode for use on the downlink connection, said second AMR coded mode being associated with a downlink C/I ratio; and

adjusting either the uplink power or the downlink power to a power level lower than an optimal power level for the connection with the highest associated C/I ratio.

17. (New) The method of claim 16, further comprising adjusting either the uplink power or the downlink power to a power level corresponding to an optimal power level for the connection with the lowest associated C/I ratio.

18. (New) The method of claim 16, wherein the step of adjusting either the uplink power or the downlink power includes controlling the uplink power from the first mobile station by a command from the first base station to the first mobile station.

19. (New) The method of claim 16, wherein the step of adjusting either the uplink power or the downlink power includes controlling the uplink power from the first mobile station by a command from a base station controller associated with the first base station.

20. (New) The method of claim 16, wherein the step of adjusting either the uplink power or the downlink power includes controlling the downlink power from the second base station.

21. (New) The method of claim 16, wherein the step of adjusting either the uplink power or the downlink power includes controlling the downlink power from a base station controller associated with the second base station.

22. (New) The method of claim 16, wherein the first base station and the second base station are parts of a common base station unit.

23. (New) A method of controlling transmit power in a radio communication system having a first base station in communication with a first mobile station and a second base station in communication with a second mobile station, said method comprising the steps of:

communicating through an uplink connection from the first mobile station to the first base station utilizing an uplink power;

communicating through a downlink connection from the second base station to the second mobile station utilizing a downlink power;

requesting by the first base station, a first Adaptive Multi-Rate (AMR) coded mode for use on the uplink connection;

requesting by the second mobile station, a second AMR coded mode for use on the downlink connection; and

adjusting either the uplink power or the downlink power to a power level lower than an optimal power level for the connection with the highest AMR coded mode request.

24. (New) The method of claim 18, further comprising adjusting either the uplink power or the downlink power to a power level corresponding to an optimal power level for the connection with the lowest AMR coded mode request.

25. (New) A radio communication system comprising:

a first base station in communication with a first mobile station over an uplink connection having an uplink power;

a second base station in communication with a second mobile station over a downlink connection having a downlink power;

wherein the first base station includes:

means for requesting a first Adaptive Multi-Rate (AMR) coded mode for use on the uplink connection, said first AMR coded mode being associated with an uplink Carrier-to-Interference (C/I) ratio; and

means for sending an uplink power command to the first mobile station for adjusting the uplink power to a power level lower than an optimal power level for the connection with the highest associated C/I ratio; and

wherein the second base station includes:

means for receiving a request from the second mobile station to utilize a second AMR coded mode on the downlink connection, said second AMR coded mode being associated with a downlink C/I ratio; and

means for adjusting the downlink power to a power level lower than an optimal power level for the connection with the highest associated C/I ratio.

26. (New) A radio communication system comprising:

a first base station in communication with a first mobile station over an uplink connection having an uplink power;

a second base station in communication with a second mobile station over a downlink connection having a downlink power;

wherein the first base station includes:

means for requesting a first Adaptive Multi-Rate (AMR) coded mode for use on the uplink connection; and

means for sending an uplink power command to the first mobile station for adjusting the uplink power to a power level lower than an optimal power level for the connection with the highest AMR coded mode request;

wherein the second base station includes:

means for receiving a request from the second mobile station to utilize a second AMR coded mode on the downlink connection

means for adjusting the downlink power to a power level lower than an optimal power level for the connection with the highest AMR coded mode request.

27. (New) The radio communication system of claim 26, wherein the first base station and the second base station are parts of a common base station unit.